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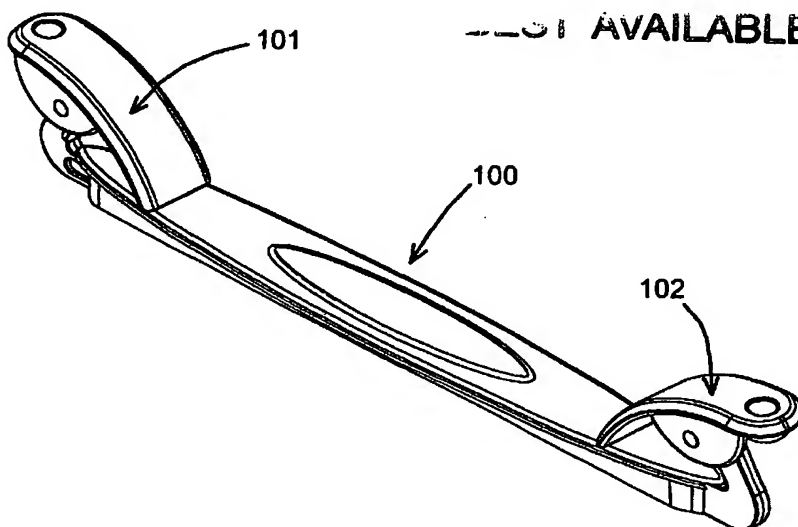
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(54) Title: **BOOK READING AID**



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(57) Abstract: A device for facilitating the reading of a book by holding its pages in an open position, includes an elongate member (100) which terminates in two inwardly-directed end-pieces (101) and (102). The end-pieces are pivotally connected to the elongate member (100) with finger and lever portions (30 and 32) disposed on opposite sides of the pivot. Coil springs (203) are provided to urge the finger portions against the pages of the book, and the fingers have straight margins (36) of curved cross-section. The end-pieces thus maintain a substantially constant pressure on the pages irrespective of the number of pages being held. The elongate member (100) includes telescopically-engaged inner and outer elements (108, 107) allowing the spacing between the end-pieces to be adjusted, and a separate platform element (13) is attached to the outer element to support the cover of the book.

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BOOK READING AID

TECHNICAL FIELD OF THE INVENTION

The present invention relates to a device for facilitating the reading of a book.

BACKGROUND

Books which have simple bindings, particularly paper-back books, do not open flat, especially when new, and tend to close while being read. This is a nuisance because either the book has to be held open when reading or some means have to be found to prevent the book from closing. Readers resort to various devices for achieving this end, such as elastic bands, or weights of one sort or another. More sophisticated devices exist such as small lecterns with paper retainers, but these can be inconvenient for personal users. **WO 99 12 747** discloses a device which clips to a cover or group of pages of a book and has a page holder which can move vertically on a cylindrical support and be rotated to be brought into juxtaposition with the pages on one side of the spine of the book to retain those pages in position. Although the device may be effective for its purpose, it is cumbersome and could be visually distracting to a reader of a book.

Other simple devices have been proposed, which generally comprise an elongate element for supporting the cover of an open book with in-turned ends to hold the open pages. Examples of such known devices are disclosed in **GB 2 055 691 A**, **GB 2 149 722 A**, **EP 0 286 545 A2**, **US 5 246 251** and **US 5 797 631**. However, such devices are not capable of firmly holding groups of pages of substantially different thicknesses. Thus, at the start of a book the pages are not adequately held whereas the opposing pages towards the end of the book may be gripped too tightly resulting in a risk of damage as the pages are turned.

It is an object of the present invention to provide an improved device for facilitating the reading of a book which is easy to operate and can firmly hold books of varying sizes without risk of causing damage to the book.

SUMMARY OF THE INVENTION

According to the present invention, there is provided a device for facilitating the reading of a book by holding its pages in an open position, said device including an elongate member for spanning and supporting the cover of an open book, and two end-pieces directed inwardly towards each other at opposite ends of the elongate member and which include finger portions arranged to press against the pages,

characterised in that the end pieces are formed as separate components which are mounted to move relative to the elongate member.

BRIEF DESCRIPTION OF THE DRAWINGS

The following description and the accompanying drawings referred to therein are included by way of non-limiting example in order to illustrate how the invention may be put into practice. In the drawings:

Figure 1 is a general view of a book holder in accordance with the invention;

Figure 2 is a side view of the book holder being used to hold a book in an open configuration;

Figure 3 is an end view of the book holder, looking from the left in Fig.s 1 and 2;

Figures 4 and 5 are top and bottom views of the book holder, respectively; and

Figures 6 and 7 are end details of the book holder showing how the holder is equally effective for holding thin and thick stacks of pages, respectively.

DETAILED DESCRIPTION OF THE DRAWINGS

Referring firstly to Fig. 1 of the drawings, the book page holder has an elongated member 100 which terminates in curved end-pieces 101, 102 which are inwardly-directed towards each other to bear upon the open pages

of a book.

The elongate member 100 is substantially straight with upstanding arms 10 and 12 at opposite ends (**Fig. 2**), which are angularly inclined towards each other. The elongate member has a tubular outer section 108 of generally rectangular cross-section with an inner section 107 which can be moved telescopically within the outer section so that the distance between the arms 10 and 12 can be continuously varied for use with books of different sizes. The elongate member 100 also includes a third component 13 which includes a platform 14 of substantially elliptical outline (**Fig. 4**) projecting on opposite sides of the telescopic sections 107 and 108. The component 13 is secured to the telescopically-engaged sections by means of depending walls 15 and 16 (see **Fig.s 3 and 5**) which clip over the outer section 108.

Referring to **Fig.s 6 and 7**, each of the end-pieces 101 and 102 is made of a substantially rigid material and has a curved part 24 in the shape of a planar strip which has been arcuately curved in one dimension. Spaced flanges 25 and 26 (**Fig. 3**) depend from the underside of the curved part 24 on opposite sides of the respective arm 10, 12 to which the flanges are pivotally secured by means of a pivot pin 201. One end of the curved part 24 forms an inwardly-directed finger portion 30 while the opposite end projects on the opposite side of the pivot pin 201 forming a lever portion 32. A coil spring 203 is carried on each of the pins 201 with one end bearing against end-piece 101, 102 and the other end bearing against the respective arm 10, 12 so that the end piece is biased towards a closed position with an end 36 of the finger portion 30 bearing against the platform 14 of the elongate member 100, as shown. The end 36 of each finger portion is substantially straight in a direction which extends substantially parallel to the

axis of the pivot pin 201, but when the end-pieces are viewed in side elevation as in **Fig.s 2, 6 and 7** it can be seen that the end 36 is formed with a smooth curve.

When the device is used to hold the pages of an open book *B* as shown in **Fig. 2** the cover of the book is firmly supported by the platform 14 while the springs 203 firmly press the ends 36 of the fingers 30 against the open pages. By using a coil spring, the force applied to the pages is substantially constant irrespective of the number of pages being held. Furthermore, the fingers always apply the same surface area to the pages whether the number of pages is small as in **Fig. 6** or large as in **Fig. 7**, so that the pages will always be held firmly without risk of damage.

When it is desired to release the pages, e.g. to turn a page, the lever portions of one or both of the end-pieces can be pressed downwards causing the finger portions to pivot away from the pages thereby releasing their grip.

The device is thus capable of holding a wide range of books of different sizes without risk of damage. Furthermore, the device is inexpensive to manufacture and easy to operate, even by people suffering from arthritis for example.

It will be appreciated that the features disclosed herein may be present in any feasible combination. Whilst the above description lays emphasis on those areas which, in combination, are believed to be new, protection is claimed for any inventive combination of the features disclosed herein.

CLAIMS

1. A device for facilitating the reading of a book by holding its pages in an open position, said device including an elongate member for spanning and supporting the cover of an open book, and two end-pieces directed inwardly towards each other at opposite ends of the elongate member and which include finger portions arranged to press against the pages,

characterised in that the end pieces are formed as separate components which are mounted to move relative to the elongate member.

2. A device according to Claim 1, wherein the elongate member has arms projecting from opposite ends to which the end-pieces are connected.

3. A device according to Claim 2, wherein said arms are angularly disposed with respect to the elongate member, projecting inwardly.

4. A device according to Claim 1, wherein the end-pieces have pivotal connections with the elongate member.

5. A device according to Claim 4, wherein each of said end-pieces is provided with a respective spring element for urging the respective finger portion towards the elongate member.

6. A device according to Claim 5, wherein each spring element

is in the form of a coil spring mounted on a pivot pin extending between a pair of spaced walls.

7. A device according to Claim 4, wherein an end of each finger portion has a substantially straight margin which extends substantially parallel to the axis of said pivotal connection for contact with the pages.

8. A device according to Claim 7, wherein said end of the finger portion is arcuately curved in a plane which is normal to its length.

9. A device according to Claim 4, wherein each of the end pieces has a lever portion projecting to the opposite side of the respective pivotal connection with respect to the finger portion.

10. A device according to Claim 9, wherein the finger and lever portions together are generally in the shape of a plane which has been curved in one dimension.

11. A device according to Claim 1, wherein the elongate member includes inner and outer telescopically-engaged elements whereby the distance between the end-pieces can be adjusted.

12. A device according to Claim 11, wherein the elongate member includes a platform which projects on opposite sides of said telescopically-engaged elements to support the cover of an open book.

13. A device according to Claim 12, wherein said platform is provided by a platform element and an underside of the platform is provided

with means for engagement with said outer telescopically-engaged element.

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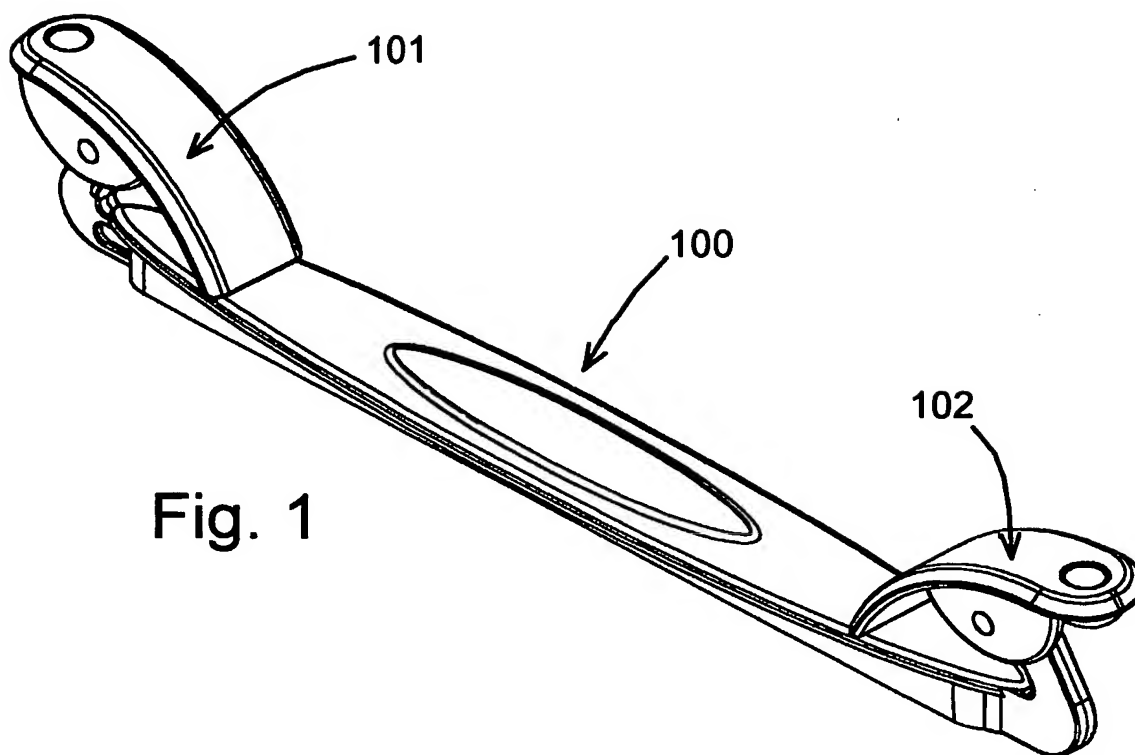


Fig. 1

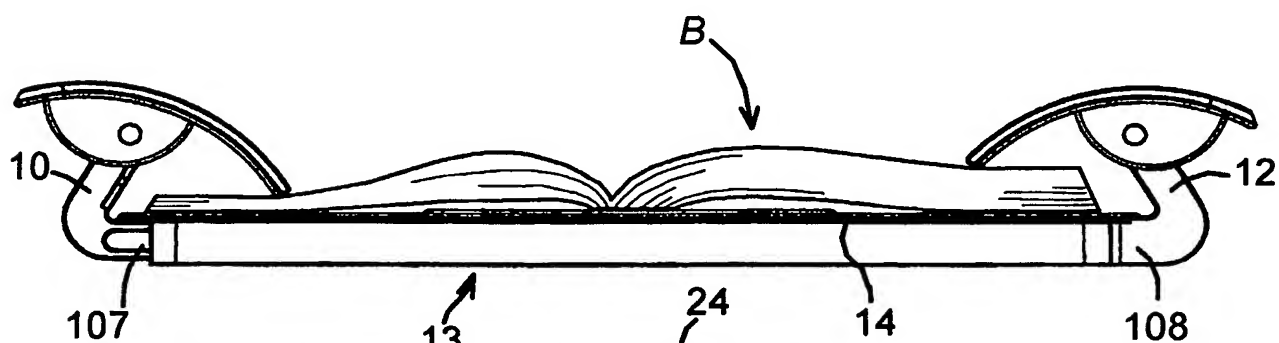


Fig. 2

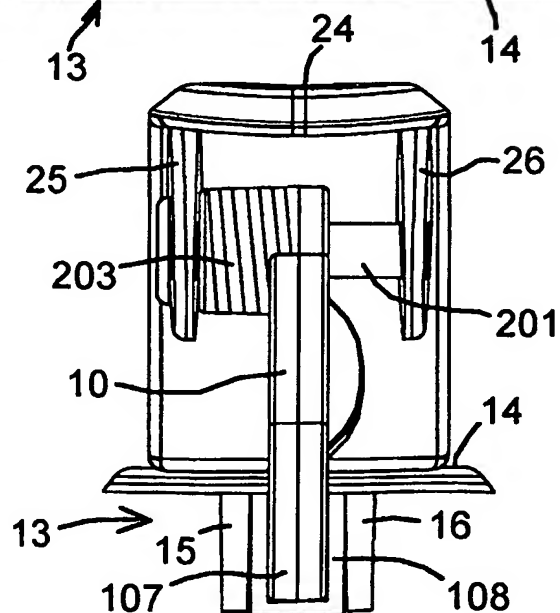


Fig. 3

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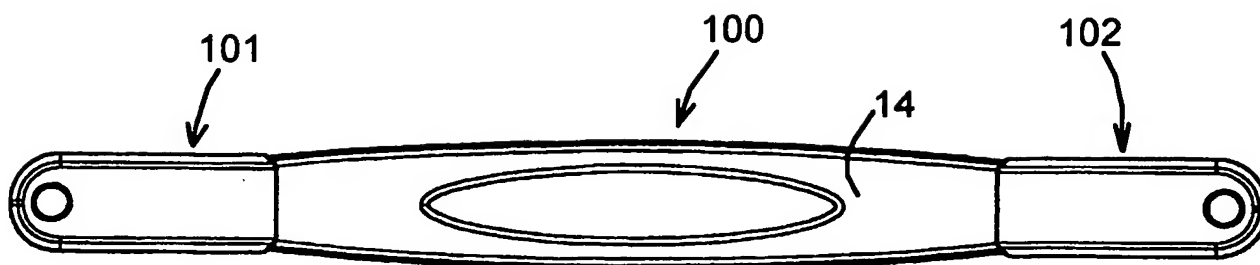


Fig. 4

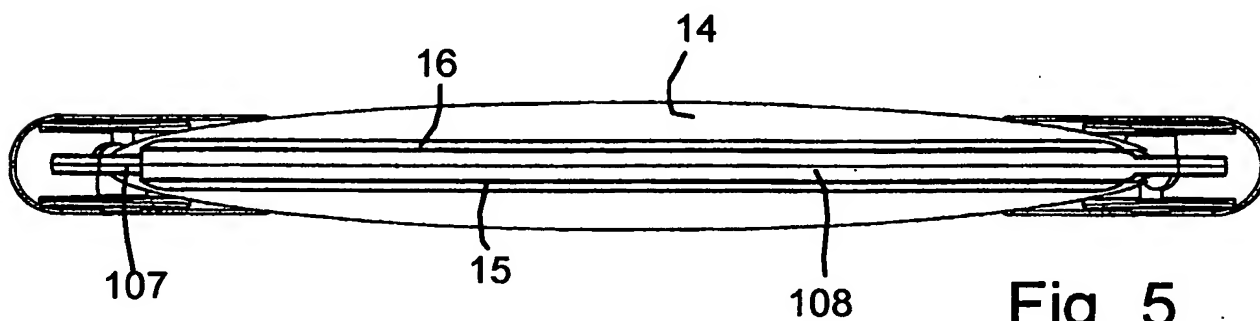


Fig. 5

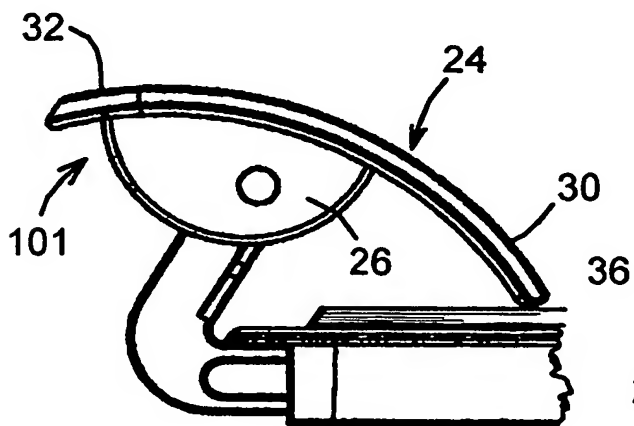


Fig. 6

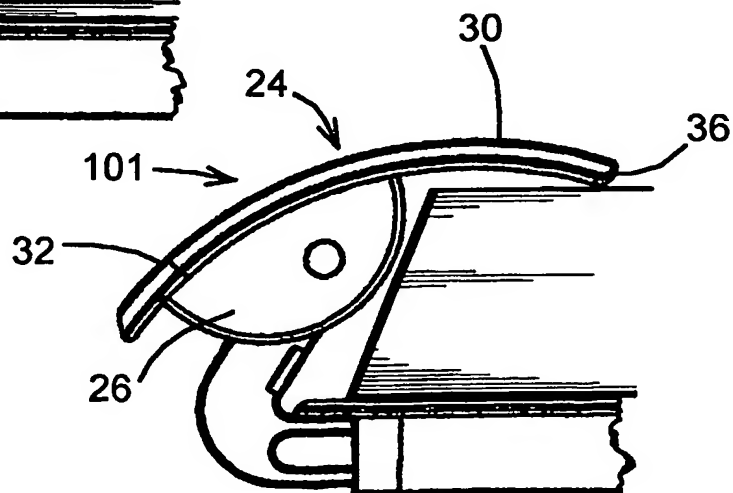


Fig. 7

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/00009

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B42D9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B42D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 061 969 A (ROBERT LEE LUNDAY) 6 November 1962 (1962-11-06)	1-11
Y	the whole document	12
Y	US 606 924 A (CALEB D. HALE) the whole document	12
X	CH 179 401 A (ALBERT LOHSE) 15 September 1935 (1935-09-15)	1,2
Y	the whole document	4-6,9
Y	GB 206 630 A (WILLIAM EDWIN PACKHAM) 15 November 1923 (1923-11-15)	4-6,9
X	US 5 382 054 A (MICHAEL BETTIOL) 17 January 1995 (1995-01-17)	1,2
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☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3061969	A	06-11-1962	NONE	
US 606924	A		NONE	
CH 179401	A	15-09-1935	NONE	
GB 206630	A	15-11-1923	NONE	
US 5382054	A	17-01-1995	NONE	

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